

BEST AVAILABLE COPY

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
8 August 2002 (08.08.2002)

PCT

(10) International Publication Number
WO 02/060500 A3

(51) International Patent Classification⁷: **A61L 15/12,**
15/14

LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,
MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG,
SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ,
VN, YU, ZA, ZM, ZW.

(21) International Application Number: PCT/US02/03163

(22) International Filing Date: 31 January 2002 (31.01.2002)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
09/775,308 1 February 2001 (01.02.2001) US

(63) Related by continuation (CON) or continuation-in-part
(CIP) to earlier application:
US 09/775,308 (CON)
Filed on 1 February 2001 (01.02.2001)

(71) Applicant (for all designated States except US): **EBI, L.P.**
[US/US]; 100 Interpace Parkway, Parsippany, NJ 07054-
0346 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **MORRIS, Roy, A.**
[US/US]; 187 N.W. 89th Avenue, Plantation, FL 33322
(US). **ALVAREZ, Jose, A.** [US/US]; P-2, Thirteen Street,
Urb., La Sierra del Rio, San Juan 00926 (PR).

(74) Agents: **SUTER, David, L.** et al.; Harness, Dickey &
Pierce, P.L.C., P.O. Box 828, Bloomfield Hills, MI 48303
(US).

(81) Designated States (national): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,
CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,

(84) Designated States (regional): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR,
GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent
(BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR,
NE, SN, TD, TG).

Declarations under Rule 4.17:

— as to applicant's entitlement to apply for and be granted
a patent (Rule 4.17(ii)) for the following designations AE,
AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA,
CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES,
FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG,
MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU,
SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG,
UZ, VN, YU, ZA, ZM, ZW, ARIPO patent (GH, GM, KE, LS,
MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent
(AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent
(AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU,
MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI,
CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)
— of inventorship (Rule 4.17(iv)) for US only

Published:

— with international search report

(88) Date of publication of the international search report:
7 November 2002

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: CASTING AID AND METHODS OF FORMING CASTS

(57) Abstract: Casting aids comprising a resin-impermeable substrate and a lubricating material, wherein the lubricating material is coated on at least one surface of said substrate. The casting aid may be used to deliver lubricant as needed to gloves or other surface contacting a tacky resin material during molding or forming of the tacky material. In particular, the lubricant-impregnated porous substrate may be used to lubricate gloves during molding and forming of orthopedic casting materials. The casting may be packaged as a kit with an orthopedic casting material.

WO 02/060500 A3

INTERNATIONAL SEARCH REPORT

International Application No
PCT/US 02/03163A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 A61L15/12 A61L15/14

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 A61L A61F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 984 884 A (ALVAREZ JOSE A ET AL) 16 November 1999 (1999-11-16)	1-18, 21-40, 43-53
Y	column 3, line 12 - line 22 column 5, line 37 - column 7, line 15 column 8, line 28 - column 10, line 35 column 12, line 29 - line 48 column 13, line 8 - line 55 examples 1-5 claims 7-10, 14, 17-20, 22, 24-27 --- -/--	19, 20, 41, 42

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *G* document member of the same patent family

Date of the actual completion of the international search

24 July 2002

Date of mailing of the international search report

12/08/2002

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax (+31-70) 340-3016

Authorized officer

Hars, J

BEST AVAILABLE COPY

INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 02/03163

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5 800 899 A (SANDVIG TIMOTHY C ET AL) 1 September 1998 (1998-09-01) column 2, line 40 - line 47 column 3, line 3 - column 4, line 23 column 5, line 63 - column 6, line 44 example 1; tables 1A, 1B, 1C	19, 20, 41, 42
A	US 4 667 661 A (SCHOLZ MATTHEW T ET AL) 26 May 1987 (1987-05-26) column 1, line 5 - line 34 column 2, line 6 - line 50	11
A	DATABASE WPI Section Ch, Week 199804 Derwent Publications Ltd., London, GB; Class A96, AN 1998-035937 XP002207247 & JP 09 286719 A (SAGAMI RUBBER KOGYO KK), 4 November 1997 (1997-11-04) abstract	11

BEST AVAILABLE COPY

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US 02/03163

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.: —
because they relate to subject matter not required to be searched by this Authority, namely:
see FURTHER INFORMATION sheet PCT/ISA/210
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

BEST AVAILABLE COPY

International Application No. PCT/US 02 03163

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.1

Although claims 34-53 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.

Continuation of Box I.1

Rule 39.1(iv) PCT - Method for treatment of the human or animal body by therapy

INTERNATIONAL SEARCH REPORT
 Information on patent family members

 International Application No
PCT/US 02/03163

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5984884	A	16-11-1999	US 5925004 A	20-07-1999
			AU 7286198 A	27-11-1998
			EP 1006961 A2	14-06-2000
			WO 9849985 A2	12-11-1998
US 5800899	A	01-09-1998	CA 2220134 A1	12-12-1996
			CN 1186444 A	01-07-1998
			EP 0830148 A1	25-03-1998
			JP 11506620 T	15-06-1999
			US 5885234 A	23-03-1999
			WO 9639201 A1	12-12-1996
US 4667661	A	26-05-1987	AT 86123 T	15-03-1993
			AT 122898 T	15-06-1995
			AU 591707 B2	14-12-1989
			AU 6291586 A	09-04-1987
			BR 8604689 A	23-06-1987
			CA 1293656 A1	31-12-1991
			CN 86106623 A ,B	13-05-1987
			DE 3650329 D1	29-06-1995
			DE 3650329 T2	28-09-1995
			DE 3687879 D1	08-04-1993
			DE 3687879 T2	17-06-1993
			DE 221669 T1	07-04-1988
			DK 458486 A	05-04-1987
			EP 0221669 A1	13-05-1987
			EP 0494083 A1	08-07-1992
			ES 2002794 A6	01-10-1988
			HK 71794 A	29-07-1994
			JP 2026823 C	26-02-1996
			JP 5065193 B	17-09-1993
			JP 62087162 A	21-04-1987
			KR 9003365 B1	16-05-1990
			NO 863632 A ,B,	06-04-1987
			NZ 217549 A	27-10-1989
			TR 22932 A	29-11-1988
			US 4774937 A	04-10-1988
			ZA 8606779 A	27-04-1988
JP 9286719	A	04-11-1997	NONE	